# Elevated Cancer Risk Levels in Laredo from Ethylene Oxide Emissions by Midwest Sterilization Corp.

United ISD Trustees February 22, 2022

Presenters: The Hon. Vanessa Perez; RGISC & Clean Air Laredo Coalition







# **Midwest Laredo**

Based in Jackson, Missouri Opened Laredo facility in 2005, in the Killam Industrial Park off Mines Road/FM 1472.

#### **Emissions Chart**

Midwest Sterilization Corp. - Laredo facility

Ethylene Oxide Emissions Data: 2005-2020\*

\*Self-reported data by company U.S. Environmental Protection Agency's Toxic Release Inventory (TRI)

Source: https://enviro.epa.gov/facts/tri/ef-facilities/#/Release/78045MDWST121GE

#### MIDWEST STERILIZATION CORP. (LAREDO, TX)

Selfareported Ethyleric Oxide Ethics Dries

Year	Fugitive Air (lbs)	Stack Air (lbs)	Total (lbs)
2005	85	4,427	4,512
2006	157	7,805	7,962
2007	172	8,626	8,798
2008	218	10,454	10,670
2009	238	11,358	11,596
2010	270	12,695	12,965
2011	275	12,902	13,177
2012	277	12,996	13,273
2013	327	15,085	15,412
2014	354	15,384	15,738
2015	413	17,362	17,775
2016	467	14,264	14,731
2017	471	14,374	14,845
2018	481	14,631	15,112
2019	540	15,850	16,390
2020	558	5,756	6,314
	5,301	193,998	199,270

i kalendi

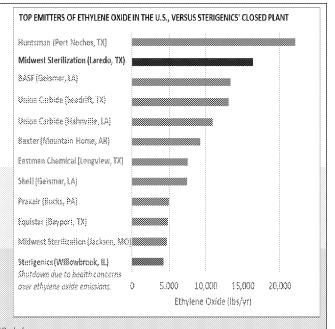
CLEANAIRLAREDO ORG Sours improvincios propositions de la companya de

ED\_014358\_00000038-00002

# Laredo

In 2019, Midwest (in red) emitted more than 16,000 pounds of ethylene oxide into the air, making it the 2nd largest emitter in the United States.

In 2019, Willowbrook (in blue), an affluent suburb of Chicago, shut down the Sterigenics plant which was emitting less than 1/3 of what Midwest emits in Laredo.



Source: EPA Risk-Screening Environmental Indicators (RSEI) 2019 data. Wallable: https://ediap.eoc.gov/public/extendoas/EasyESE/EasyESE/Ensi

### **Midwest Sterilization Corp - Laredo**

#### 2nd in the U.S.

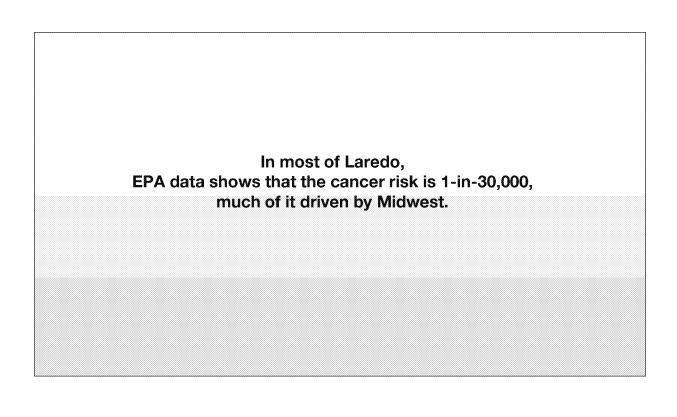
Among 100+ facilities that emit ethylene oxide.

Source: U.S. EPA, 2019

#### 3rd in the U.S.

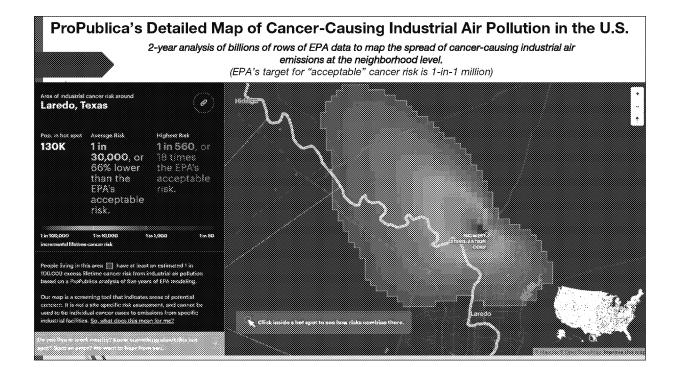
Highest Cancer Hazard from air pollution among 15,000+ industrial facilities that report air toxic data to EPA's Toxic Release Inventory.

Source: U.S. EPA, 2019



In the immediate area around Midwest Sterilization Corp, in the Killam Industrial Park and its 200 businesses, the cancer risk is 1-in-560.

1-in-10,000 cancer risk level concentration is measured by continuous exposure of just 0.011 ppb (part per billion) or 0.02 µg/m3 (microgram per cubic meter)



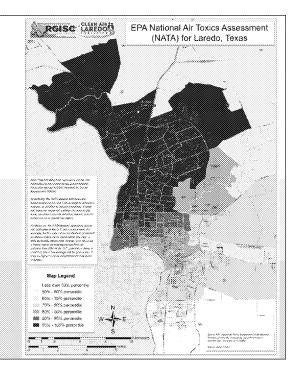
#### U.S. EPA NATA Cancer Risk Map

2014 data (most recent map)

Laredoans are exposed to a significantly high volume of EtO emissions, and related cancer risk levels, which the EPA has deemed "unacceptable."

**RED area:** Census tracts with the highest risk of developing cancer from air pollution compared to 95-100% other U.S. residents.

**ORANGE areas:** Census tracts with risks of developing cancer from air pollution compared to 90-95% (dark orange) and 80-90% (light orange) other U.S. residents.



#### Laredo Schools and Children at Risk

10 Laredo schools rank in the top 1% of ALL schools in the U.S.

for "Most Air Toxic/Hazardous Air Pollutants" because of ethylene oxide.

The EPA reports that ethylene oxide is 30 times more toxic to adults and 60 times more toxic to children than previously estimated.

Source: "Air Toxics at School Project": Political Economy Research Institute (PERI) at the U. of Massachusetts Amherst

# Laredo Schools at Risk – top 20

School	Toxic Hazard	Percentile (U.S.)
JULIA BIRD JONES MULLER ELEMENTARY	948,061.14	lst
BARBARA FASKEN ELEMENTARY	241,827.06	lst
UNITED DAY SCHOOL	165,405,30	1st
KAZEN ELEMENTARY	145,274.91	1st
FINLEY ELEMENTARY	145,274,91	lst
RAUL PERALES MIDDLE	142,491.06	1st
GEORGE WASHINGTON MIDDLE	139.094,90	lst
MATIAS DE LLANO ELEMENTARY	119,012,78	1 s <b>t</b>
TRAUTMANN MIDDLE	110,048.68	lst
ELIAS HERRERA MIDDLE	110,048.68	1 st
DR MALAKOFF ELEMENTARY	104.865.29	2nd
TRAUTMANN ELEMENTARY	102,924.01	2nd
MARY HELP OF CHRISTIANS SCHOOL	90.927.74	2nd
CHARLES BORCHERS ELEMENTARY	86,346.89	2nd
JUVENILE JUSTICE ALTERNATIVE PROGRAM	85,906.80	2nd
UNITED MIDDLE	85,906.80	2nd
MUNDO MONTESSORI	81,622,42	2nd
LAREDO CHI ACADEMY BEAUTY SCHOOL	81,622.42	2nd
NYE ELEMENTARY	75,278.28	2nd
COL SANTOS BENAVIDES ELEMENTARY	71,592.40	2nd

In 2019, the PERI at U Mass published a review of EPA data focused on school exposure, "Air Toxics at School".

In Laredo, Muller ES has an Air Toxic concentration that is **205 times** the national average at schools. This toxicity is based on **EtO** pollution.

There are only 24 schools with worse air toxic ranks in the United States, placing Muller in the **top 1% nationwide** for chronic health risk from air pollution.

94 of 95 Laredo schools (public, private, charter, specialty, higher education) rank in the **top 6**% of Most Air Toxic schools in the U.S., based on **EtO** pollution.

	S30 260				2286
School Air Toxics					
icagó: Sidoxó	lisec.	percentific.	. 0.000 30000	fort	genan
	1.7864	7.88.0	888	2162150	2000
Nobe (Bint Jopes Mulkie Ethioportally Nathoriti Poskish Erospontary	54102200	1 10	Legendodo: Riorapidery Martin High	3163139	- 00
Delicate - Second Control of Second Sec	105-646-2	7.6	Ja tabrily Jr Stansonary	a1569.47	
Cozen C	145574.01	1	Monocod Walde	3123547	40
Score Sistemation	146674.31	1 10 1	Syn Enrights;	3878709	ad
Resi Forkios, biddre	14249000	1,61	: Acor Moide	3675709	@F
Descript Mashington Middle	19900A-9	181 8	Divari Discrensov	30.76633	49
Cortou Cortile of Signification	110012.72	194	Oto iusay Ol-Glandarigin Philodi	20743 52	- 64
Ingustrano Madole	0504658	(49)	Hotjae Contestory	26/108,05	
ERpa Hornoria Balgabo	100948.68	165	Protein High Of Lareas	2904789	418
or Mebbert Florescopy	104566,75	223	Slocood Roosened Roose Microsoft Classantag	2000730	40
Insutangan Elemekatang Marie Hidip Ot Standson Balagot	19092774		Do Facrat Sementery	78859.95	- ed - 69
on guine Guinnes Sterner rary	300AK-69	100	Californ Energy (Sch	20003.43	40
November Substitut Alligentative Principant	186909.8	t and	St Perse Monant School	28348.68	
Integral Microsoft	80006.8	2.4	Dovošna Evánozovi	245/14,60	-11
Moundio Albrintodocisi	28/62/42	214	Antonio Gorosade fáredo	24626,34	<1P
uchuść (Dió Assaercy (Supary Schoo)	133692540	000	Lacoba Cotage	24506.97	.43
Nyel Ellernesserv	149078,28	j274 <b>8</b>	Audith Zeifer i Diseasovery	8969194	
Out/Santos Neopaldos Esterachary	730024	S:41	Sant: Ning histoperasis	2547430	
Krist Silvergroe, High	60000000	370	P. A. Kerverbery	2510238	(9
Patester Gladerica Elsengistery Salphowood Catago Elanydo	84457.63 -38.38.78	276	Spirios Elponentary Liebono Septembers	210632.42	- 65 511
United 150h	8670.91		Former: Golda Frankissky	28050.56	50
Obers Aladdia	5,5155,73	1	Hr. Jackson Likipot Sery	20832.84	53
Den Pleasonanc	1544,5598	2/21	Piles Casma Sast	568657.63	54
Becomil Gayore Faith College (Spb)	1047938-19	9511	i Inited Soud: Misido	36697.83	54
Grays A. B. M. Gyernabonal Elipsanady	\$3000,10	376	Qtaged \$6005 edgq	200003.76	50
Heatron Elebertory	54361.21	2nd	Preedont Stanteribely	19843.78	- 65
ker kress	\$0000.00E	1 24	Europa Ciparco Middle	119600.45	Sit
rither Stop-Academy	1505515	2.9	Ligarde Elemensey	19603.46	50
judonov Associty i bivació x Charter High hrivan Pismanning	148605.42	365 367	Chisa Copiagodo Filoconocy Piordo Misufo Francisary Filosoa	17001.90	59
hersen dismernese Nema Nomenboy	148906.79	25	Riddolfo U Centeno Flamentov	1/9/2/05	54
report by Skipping Appropriy (Laspoor	1420000.9	361	Signal Reservations	168622	63
Satrianay Sutrani Of Eucadinende - Lacistic	52532.5	363	Similaries Assertating Sharts Vista Silvator trip		65
Harmony Gondon Cribe (1998) 11 - Lies St.	4 (6 2 1 60)	36	es dest Wildow ebecomen	16004.12	500
Carrie Marie Etensiviting	20075.52	263	Let Otsephi Middle	16150.AV	Gir
Roser Furnestary	100000.0	361	Pacific fit Pasasovel Elegentery	48160 47	- 55
Swen High	9866 V	397	Prada Homacyary	10098.00	895
Sanctive Eterreplacy ti Ordbook Janochbury		35	And h Mage Delection Certist	166,7521	nie.
F.S. Lago According	137998.39	361	Wood County J. La S.P.	1627101	50
Distr Glordowny	37959.89	310	Lyndon Biolinach	14542.4	- 65
Jacobo Beauty Cutogo inc Disc Just Guillago	34765.57	36	Lienas Broth Vargoris Middas. Nam Eservarisera	18799.27	S/F
vency Cuestar Silenteniany	33653.06	36:	Visconate Medicines Abstractory		63
Buscole Guerro (Constitute Constitute)	100000		Good Rogging Sports Evaporters	269 8 86	1
Clarities Matrie	1399140	10.	888000000000000000000000000000000000000	00000000000000	0000000

# December 27, 2021: Investigative Piece by ProPublica and Texas Tribune of Midwest Sterilization Corp. in Laredo, TX A Plant That Sterilizes Medical Equipment Spews

A Plant That Sterilizes Medical Equipment Spews
Cancer-Causing Pollution on Tens of Thousands
of Schoolchildren

Nobody told Yaneli Ortiz's family that the factory they lived near emitted ethylene oxide. Not when the EPA found it causes cancer. Not when she was diagnosed with leukemia. And not when Texas moved to allow polluters to emit more of the chemical.

hitos //www.propublics.org/a ficlers-plant lital-stariitzes-madica-equipment apews-pancer caucing-poliutionon-tene-of-thousands-of-schoolch-idren